

LISTING OF CLAIMS

This listing replaces all prior versions, and listings, of claims in the application:

1. (original) A fibrin cell support for skin grafts, comprising thrombin and fibrinogen, wherein the concentration of thrombin is between about 0.5 U/ml and about 2.5 U/ml.
2. (original) The fibrin cell support according to claim 1, wherein the concentration of fibrinogen is between about 10 and about 250 mg/ml.
3. (original) The fibrin cell support according to claim 1, wherein the concentration of thrombin is between about 1.0 U/ml and about 1.5 U/ml.
4. (original) The fibrin cell support according to claim 1, wherein the concentration of thrombin is about 1.25 U/ml and the concentration of fibrinogen is between about 75 and about 150 mg/ml.
5. (original) The fibrin cell support according to claim 1, further comprising a protease inhibitor.
6. (original) The fibrin cell support according to claim 2, further comprising a protease inhibitor.
7. (original) The fibrin cell support according to claim 3, further comprising a protease inhibitor.
8. (original) The fibrin cell support according to claim 4, further comprising a protease inhibitor.
9. (original) The fibrin cell support according to claim 1, wherein said protease inhibitor is aprotinin.
10. (original) The fibrin cell support according to claim 9, wherein the concentration of said aprotinin is between about 1,000 KIU/ml and about 10,000 KIU/ml.

11. (original) The fibrin cell support according to claim 9, wherein the concentration of said aprotinin is about 3000 KIU/ml.
12. (original) The fibrin cell support according to claim 1, further comprising one or more molecules selected from the group consisting of a polypeptide growth factor, a cytokine, an enzyme, a hormone, an antibiotic, a protease inhibitor, and an antimycotic, or a combination thereof.
13. (original) The fibrin cell support according to claim 2, further comprising one or more molecules selected from the group consisting of a polypeptide growth factor, a cytokine, an enzyme, a hormone, an antibiotic, a protease inhibitor, and an antimycotic, or a combination thereof.
14. (original) The fibrin cell support according to claim 3, further comprising one or more molecules selected from the group consisting of a polypeptide growth factor, a cytokine, an enzyme, a hormone, an antibiotic, a protease inhibitor, and an antimycotic, or a combination thereof.
15. (original) The fibrin cell support according to claim 1, further comprising one or more cells.
16. (original) The fibrin cell support according to claim 2, further comprising one or more cells.
17. (original) The fibrin cell support according to claim 3, further comprising one or more cells.
18. (original) The fibrin cell support according to claim 4, further comprising one or more cells.
19. (original) The fibrin cell support of claim 15, wherein said cells are keratinocytes.
20. (original) The fibrin cell support according to claim 1, wherein the thrombin is calcic thrombin.

21. (withdrawn) A method of preparing a fibrin cell support, comprising:
 - a) mixing equivalent volumes of a first solution comprising fibrinogen and a second solution comprising calcic thrombin, wherein the concentration of calcic thrombin is between about 1.0 U/ml and about 1.5 U/ml; and
 - b) distributing said mixture onto a surface, such that a fibrin cell support is formed on said surface.
22. (withdrawn) The method of claim 21, further comprising contacting said fibrin cell support with one or more cells.
23. (withdrawn) The method of claim 22, wherein said cells are epithelial cells.
24. (withdrawn) The method of claim 23, wherein said epithelial cells are keratinocytes.
25. (withdrawn) The method of claim 23, wherein said epithelial cells are corneal epithelial cells.
26. (withdrawn) The method of claim 21, further comprising contacting said mixture with one or more cells prior to distributing said mixture on said surface, thereby integrating said cells into said fibrin cell support.
27. (withdrawn) The method of claim 21, wherein said surface is a tissue culture dish or flask.
28. (withdrawn) A method of using a fibrin cell support, comprising:
 - a) contacting one or more cells with a fibrin cell support to form a skin replacement tissue, said support comprising calcic thrombin and fibrinogen, wherein the concentration of calcic thrombin is between about 1.0 U/ml and about 1.5 U/ml; and
 - b) recovering the skin replacement tissue;
 - c) optionally transporting the skin replacement tissue; and
 - d) applying the skin replacement tissue as a graft.

29. (withdrawn) The method according to claim 28, wherein said cells are on the surface of said fibrin cell support.
30. (withdrawn) The method according to claim 28, wherein said cells are keratinocytes.
31. (withdrawn) The method according to claim 28, wherein said cells are integrated within said fibrin cell support.
32. (withdrawn) The method according to claim 28, wherein said cells are keratinocytes.
33. (withdrawn) The method according to claim 28, wherein said cells are obtained after dispersion of a fresh cell layer.
34. (withdrawn) The method according to claim 28, wherein said cells are obtained from a bank of cells preserved in liquid nitrogen.
35. (withdrawn) A method of using a skin replacement tissue, comprising:
 - a) contacting one or more keratinocytes with a solution comprising fibrinogen and calcic thrombin, wherein the concentration of calcic thrombin is between about 1.0 U/ml and about 1.5 U/ml, to form a skin replacement tissue, and
 - b) optionally transporting said skin replacement tissue to a patient in need thereof.
36. (withdrawn) The method of claim 35, wherein said solution is added to a cell layer comprising keratinocytes in a culture dish.
37. (withdrawn) The method of claim 35, wherein said keratinocytes are obtained from a bank of cells preserved in liquid nitrogen.
38. (withdrawn) A method of storing a fibrin cell support, comprising:
 - a) contacting a fibrin cell support with a cylindrical inner carrier;
 - b) inserting said fibrin cell support and said inner carrier in a hollow outer carrier, said outer carrier having an inner diameter larger than the outer diameter of the inner carrier;

- c) filling the space formed between the fibrin cell support and the inner wall of the outer carrier with cell media; and sealing the outer carrier so as to maintain a sterile environment, thereby storing the fibrin cell support.

39. (withdrawn) A method of storing a fibrin cell support, comprising:

- a) contacting a fibrin cell support with a carrier, said carrier comprising a first and a second sheet, said first and said second sheets operably linked to each other, such that said support contacts said first sheet;
- b) filling the space formed between the fibrin cell support and said second sheet with cell media; and contacting said first and said second sheet so as to maintain a sterile environment, thereby storing the fibrin cell support.

40. (withdrawn) The method of claim 39, whereby said fibrin support comprises one or more cells.

41. (withdrawn) The method of claim 40, whereby said cells contact said first sheet.

42. (withdrawn) The method of claim 41, whereby said cells do not contact said first sheet or said second sheet.